Oscilloscope I (A, B, F)

Name: _____ Section: 4BL-___ Date performed: __/__/__

Lab station: _____ Partners: _____

Oscilloscope #_____

Part A

Explain the difference between adjusting the oscilloscope and adjusting the function generator:

Part B

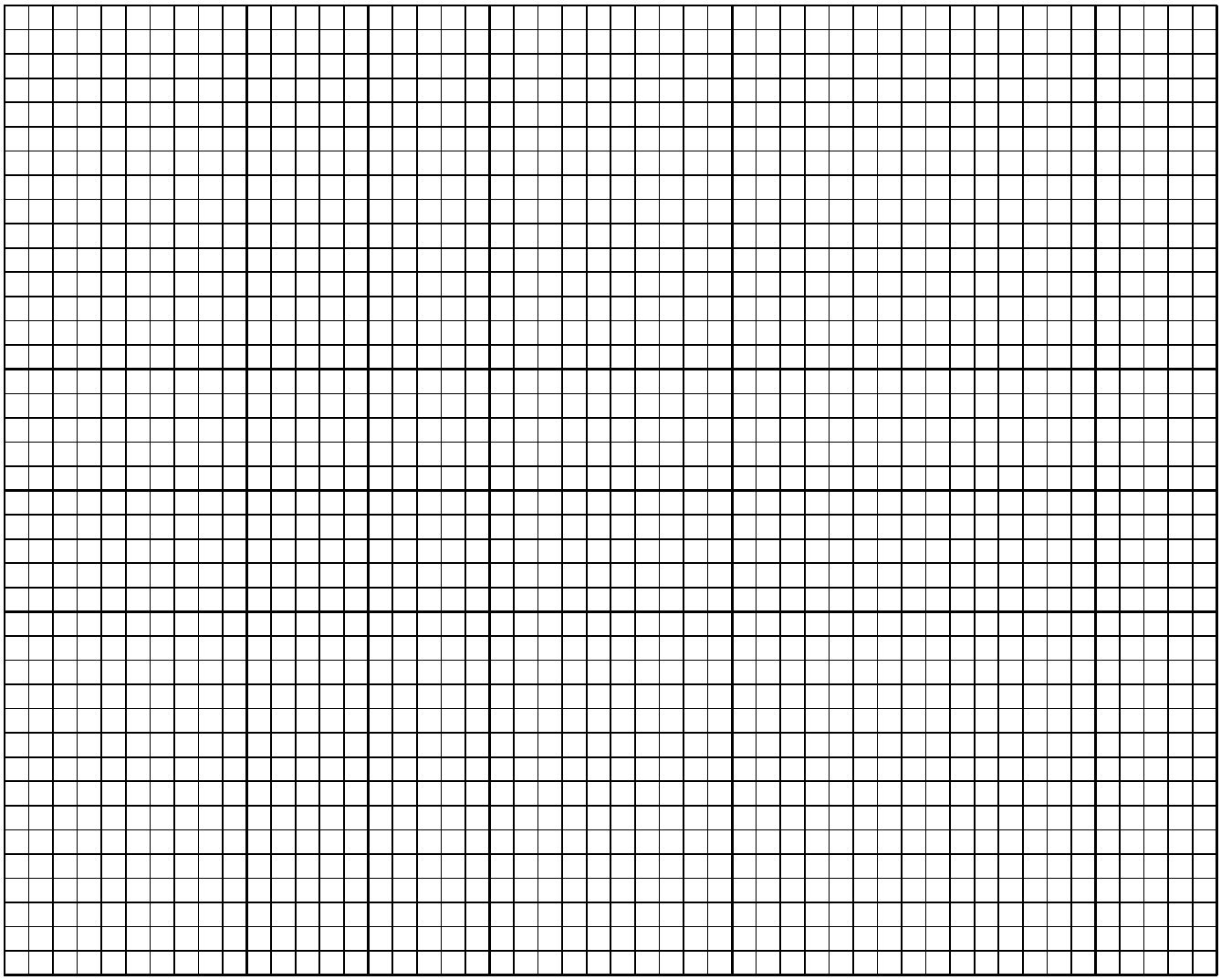
Plot V vs. t graph on the next page.

	setting	hand graph	cursors	V_{pp} mode
Period ( )	XXXX			XXXX
Frequency ( )				XXXX
Amplitude ( )	XXXX			
Peak-to-peak ( )	XXXX			
DC offset ( )	XXXX			

Calculations and comparisons:

Oscilloscope: _____ V/div _____ s/div mode: DC / AC

Function generator: Frequency dial = _____ Hz



Part F

Microphone:

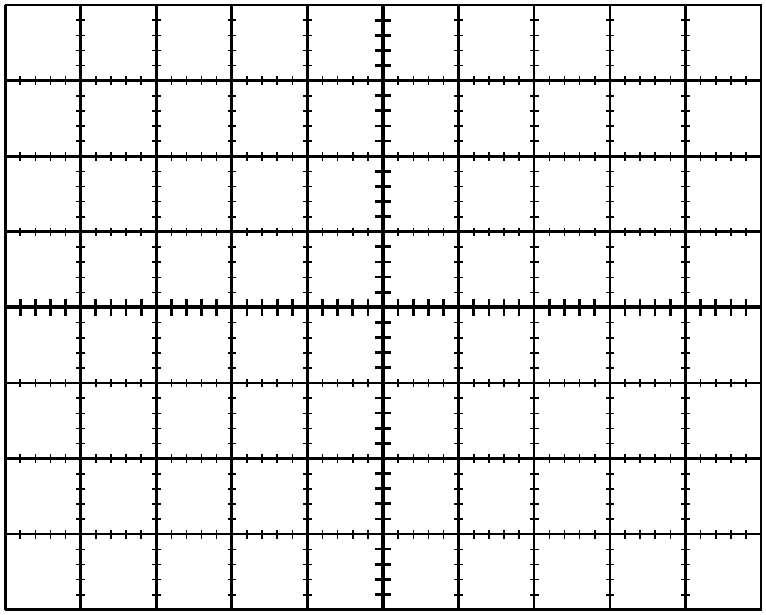
Loudness is associated with _____.

Pitch is associated with _____.

Increasing the pitch by one octave will cause the _____ to [increase / decrease] by a factor of _____.

Sketch partner's voice print (name: _____):

Oscilloscope: _____ V/div _____ s/div mode: DC / AC

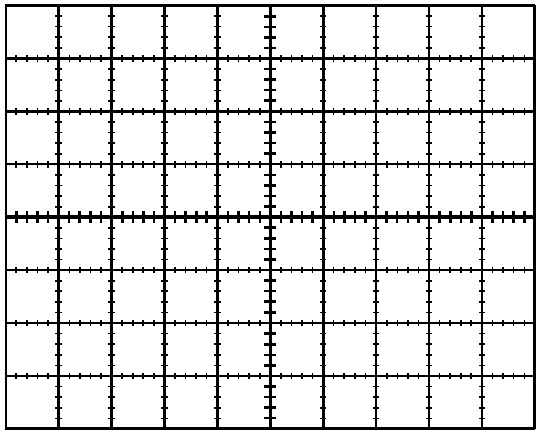


Tuning fork frequency = _____
How does amplitude change over time? Why?

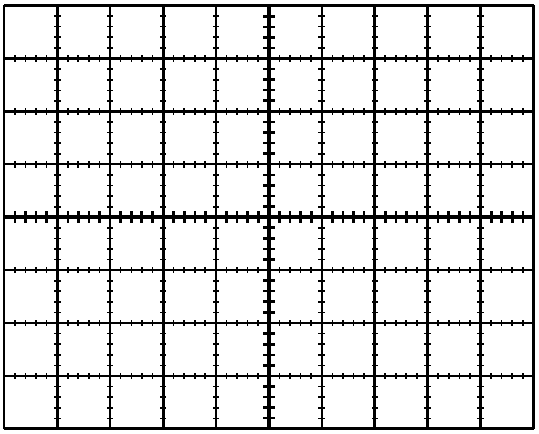
Photodioide:
Explain the small DC signal:

Sketch the trace for the remote control for two different buttons:
Oscilloscope: _____ V/div _____ s/div mode: DC / AC

button _____



button _____



How does remote control send information to the device it is controlling?